

May 2021

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## NiTech produces world-class CBD isolate

Cannabidiol (CBD) sales are taking off as a supplement in health foods and drinks. Conventional processes can struggle to produce a superior quality CBD isolate, due to the need to control tetrahydrocannabinol (THC), which is strictly controlled in consumer products due to its psychoactive properties. Now, a new project has confirmed NiTech's crystallisation technology can produce THC-free CBD.

NiTech's continuous technology (*see photo*) was used to produce CBD isolate from hemp distillate. The Innovate UK-funded project was carried out with the support of Aberystwyth University (IBERS), using their licensed premises.



It successfully developed a robust continuous process and demonstrated the conversion of commercially sourced CBD distillate into high purity CBD isolate (>99%) with a single pass. Levels of THC and other controlled cannabinoids were undetectable in (<0.0001%), making it suitable for a wide range of applications.

Good yields and consistent production quality were also achieved. With this level of performance, NiTech's continuous crystallization solution will likely be in high demand by CBD manufacturers.

### ISCMP: Continuous manufacturing vital for UK pharma

**80%** of delegates that attended February's International Symposium for Continuous Manufacturing of Pharmaceuticals (ISCMP) saw continuous manufacturing as very important for the future of medicines manufacture.

**70%** said skills and collaboration were also key to accelerate the adoption of continuous technologies, which is vital for the UK is to retain and increase its share of the medicines manufacturing market.

Click [here](#) to download the paper.

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## NiTech reactors can aid BEIS energy efficiency projects

NiTech's patented tubular baffled and oscillatory baffled reactor technology is a proven process to cut CO<sub>2</sub> emissions. We are currently leading the BioGrid project, funded by the UK's Department for Business, Energy and Industries Strategy (BEIS), and working with the University of South Wales and BPE, to produce biomethane from waste CO<sub>2</sub>.

Our continuous technology can help companies looking to apply for funding under BEIS' Spring 2021 round of its Industrial Energy Transformation Fund for:

- ❖ projects deploying technologies that improve the energy efficiency of industrial processes; and
- ❖ feasibility and engineering studies into energy efficiency and deep decarbonisation measures for industrial processes.

UK businesses can bid for up to £40m in grant funding until 14 July. Contact us at [sales@nitechsolutions.co.uk](mailto:sales@nitechsolutions.co.uk) to see how NiTech can assist with your project.

## New appointment at NiTech Solutions

NiTech has appointed Alex Melrose as senior process engineer with effect from 4 May 2021. Alex is a chartered chemical engineer with functional safety engineer certification from TUV Rheinland. He joins us from Wood plc, where he was principal process engineer, focused on the BP ETAP platform.



NiTech is participating in Achema Pulse, a virtual event taking place from 31 May-30 June. There will be live presentations on 15-16 June, featuring the latest topics in the process industry for the chemical, pharmaceutical and food sectors. Contact [sales@nitechsolutions.co.uk](mailto:sales@nitechsolutions.co.uk) if you would like to receive a free ticket to the event and find out how our continuous crystallizers and reactors can help your process become **Safer, Greener, Faster and Cheaper.**